

FIG. 1A

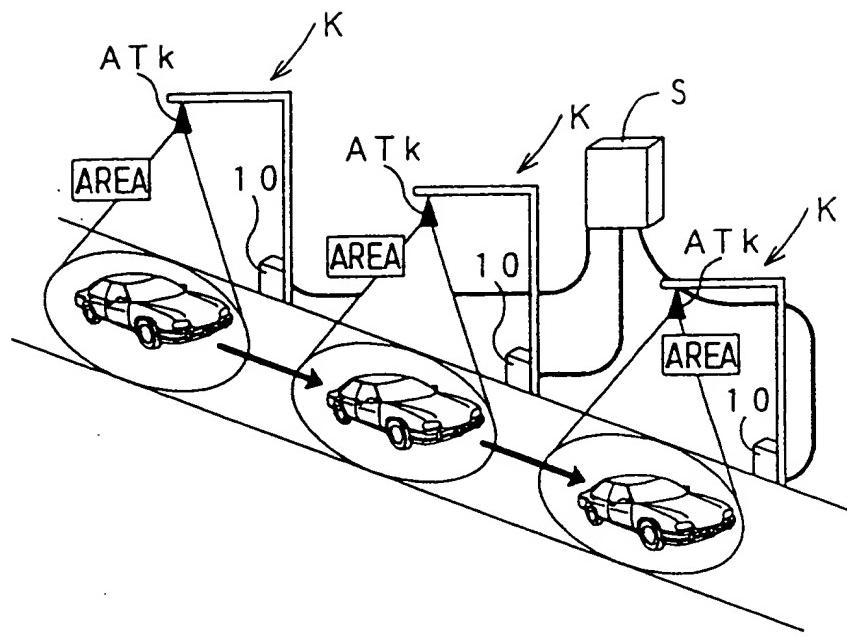


FIG. 1B

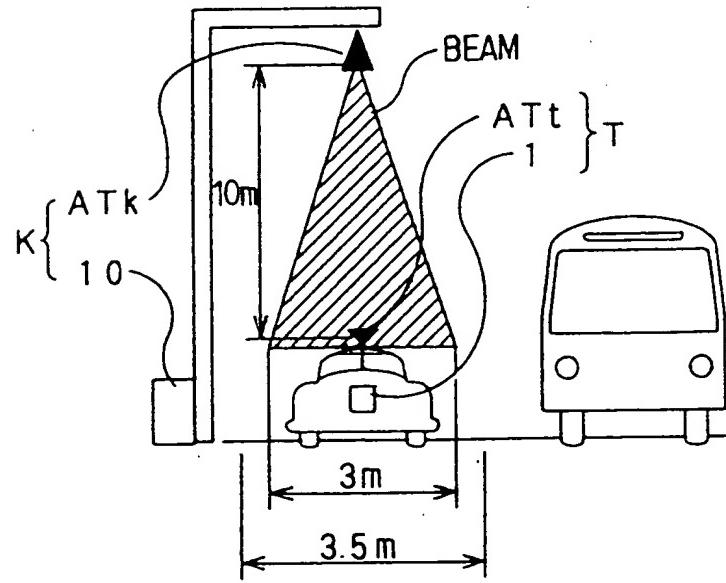


FIG. 2A

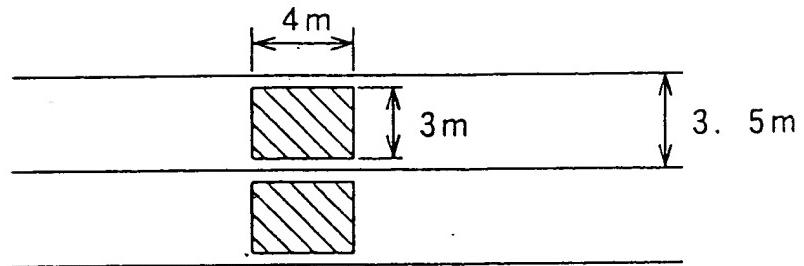


FIG. 2B

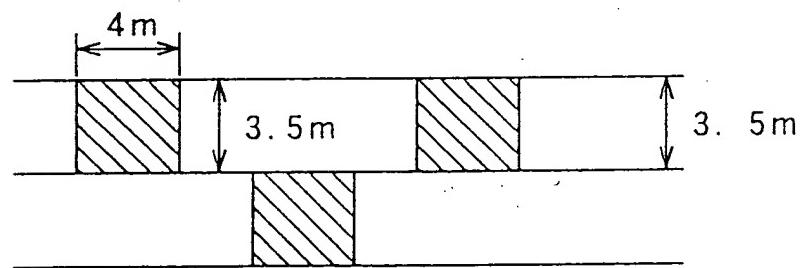
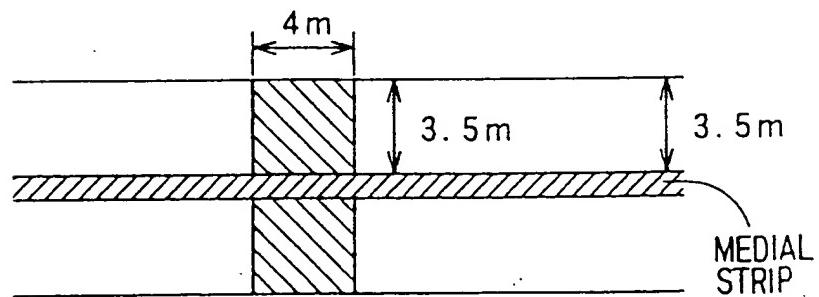


FIG. 2C



ATK
ATt
 $f_0 + \Delta f$
 f_0
 $f_0 - \Delta f$

FIG. 3A

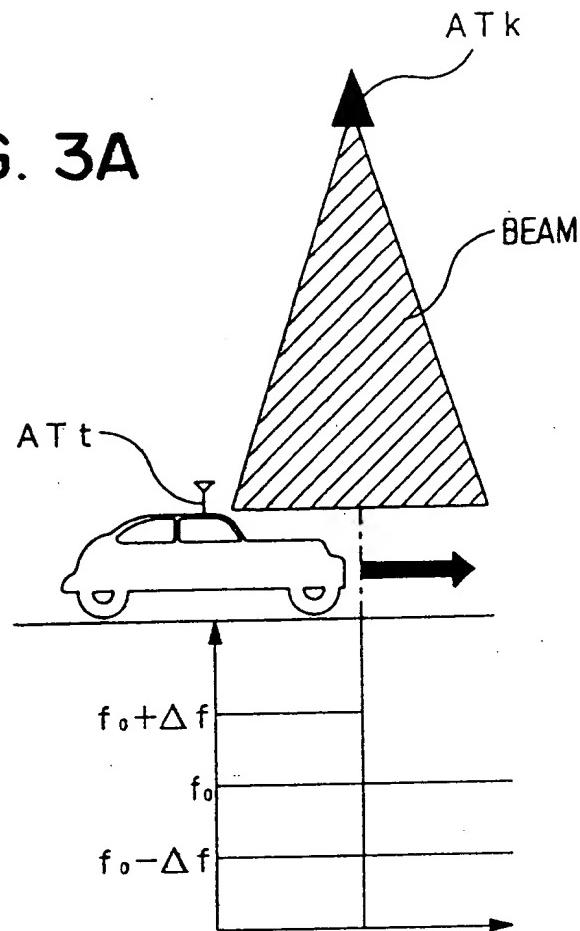


FIG. 3B

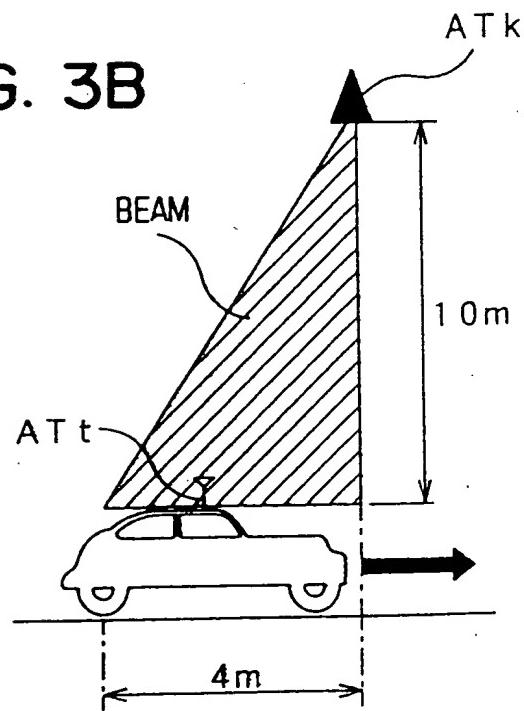


FIG. 4A

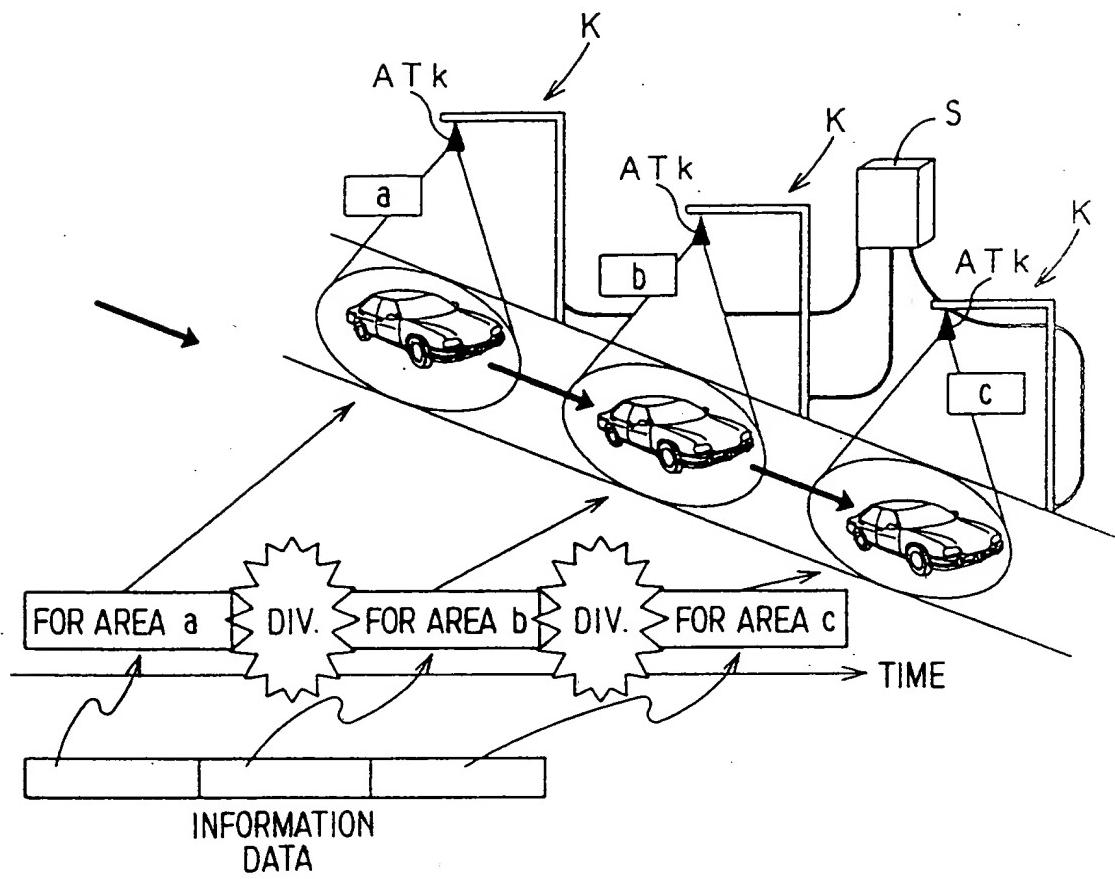


FIG. 4B

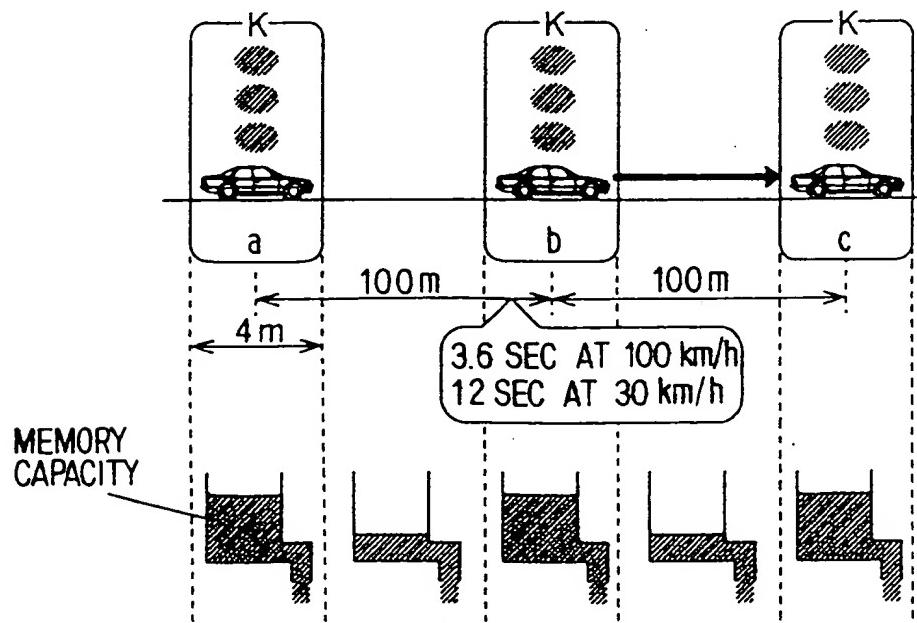


FIG. 5

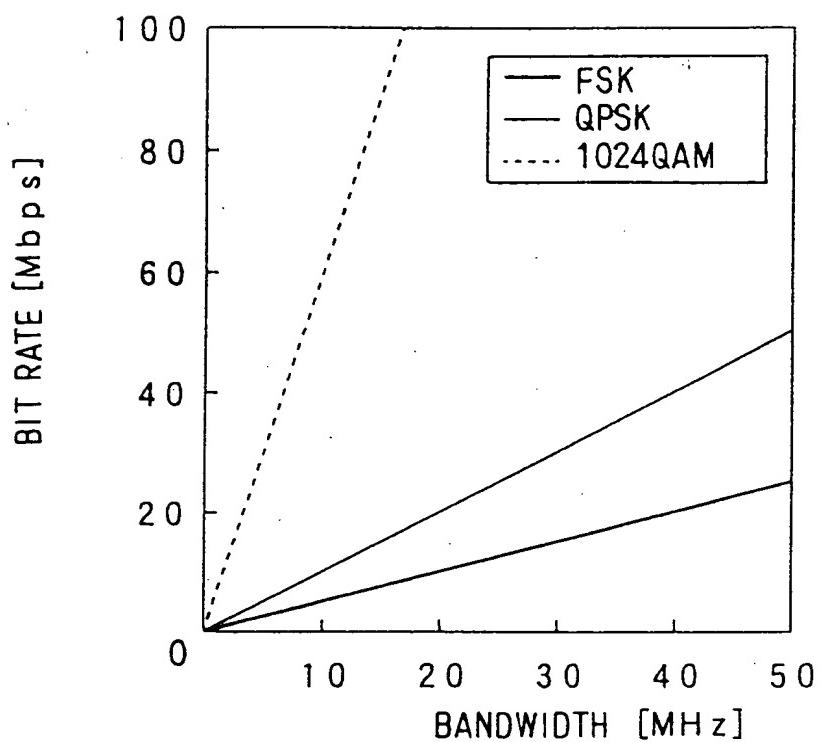


FIG. 6A

MODULATION	AVERAGE BER
FSK	$P_{FSK} = \operatorname{erfc} \left(\frac{K_0}{\sqrt{2}} \right)$
BPSK	$P_{BPSK} = \frac{1}{2} \operatorname{erfc} \left(\frac{K_0}{\sqrt{2}} \right)$
QPSK	$P_{QPSK} = \frac{1}{2} \operatorname{erfc} \left(\frac{K_0}{\sqrt{2}} \right)$
16QAM	$P_{16QAM} = \frac{3}{8} \operatorname{erfc} \left(\frac{K_0}{\sqrt{10}} \right)$
64QAM	$P_{64QAM} = \frac{7}{24} \operatorname{erfc} \left(\frac{K_0}{\sqrt{42}} \right)$
256QAM	$P_{256QAM} = \frac{15}{64} \operatorname{erfc} \left(\frac{K_0}{\sqrt{170}} \right)$

FIG. 6B

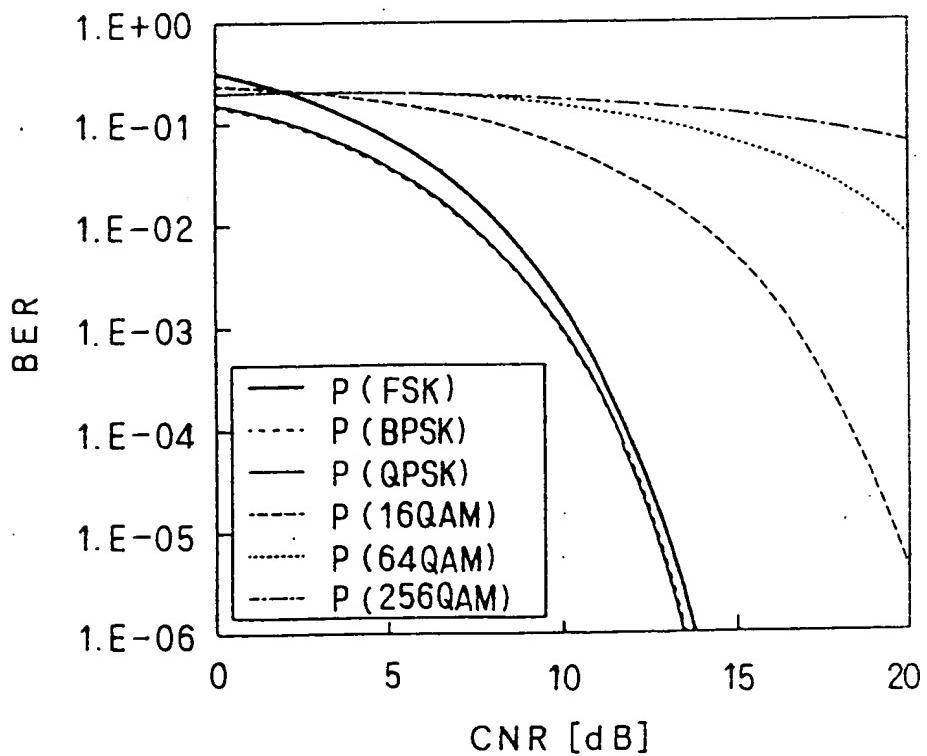


FIG. 7A

PARAMETER	VALUE	
	SPOT	CONTINUOUS
POWER	10 dBm	
ANTENNA GAIN	20 dB	3 dB
DISTANCE	10 m	
FREQUENCY	37 GHz	
MODULATION	FSK, BPSK, QPSK	
AVERAGE BER	1×10^{-6}	
RECEIVER NOISE	10 dB	
TEMPERATURE	300 K	
BANDWIDTH	1 - 200 MHz	

FIG. 7B

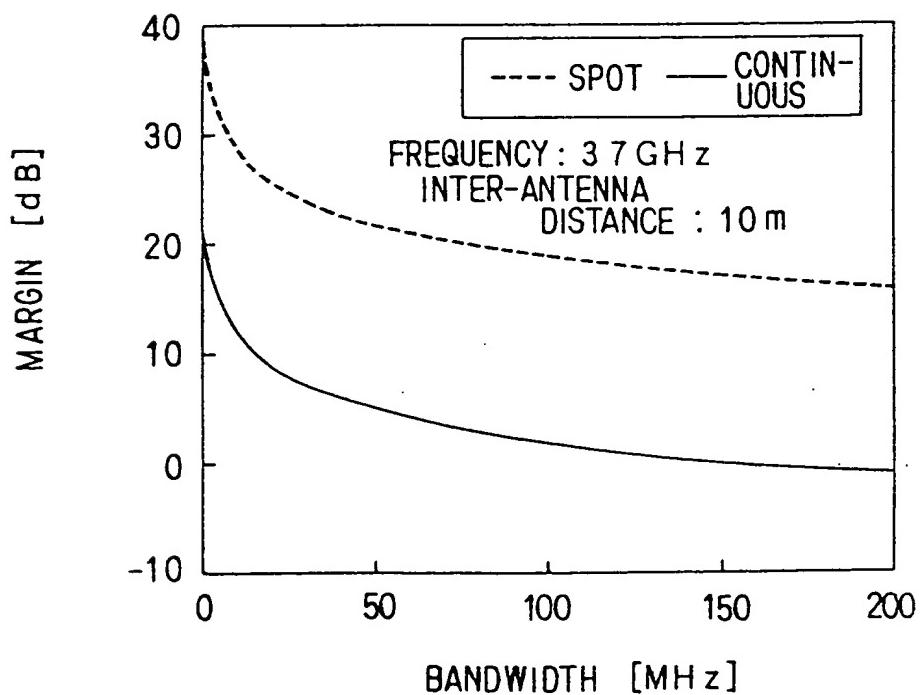


FIG. 8A

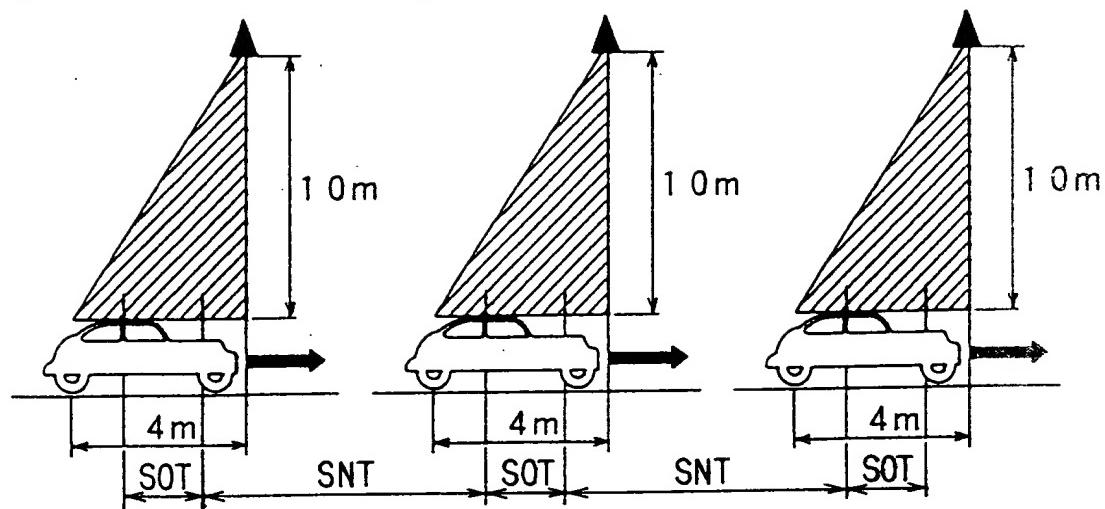


FIG. 8B

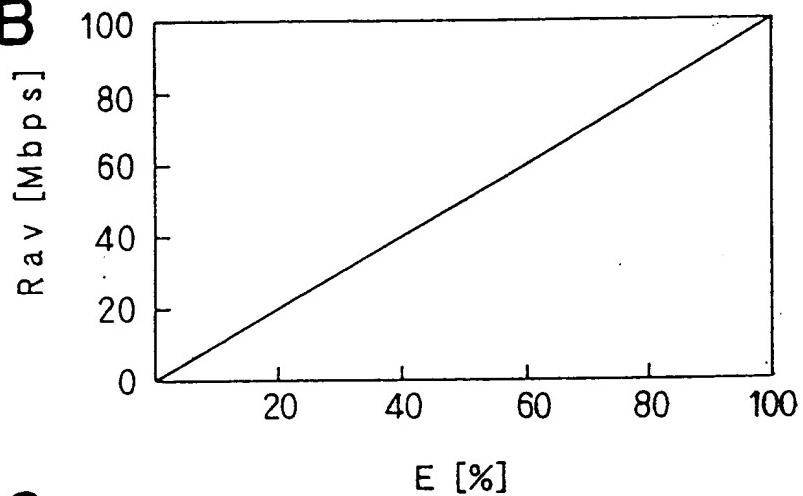


FIG. 8C

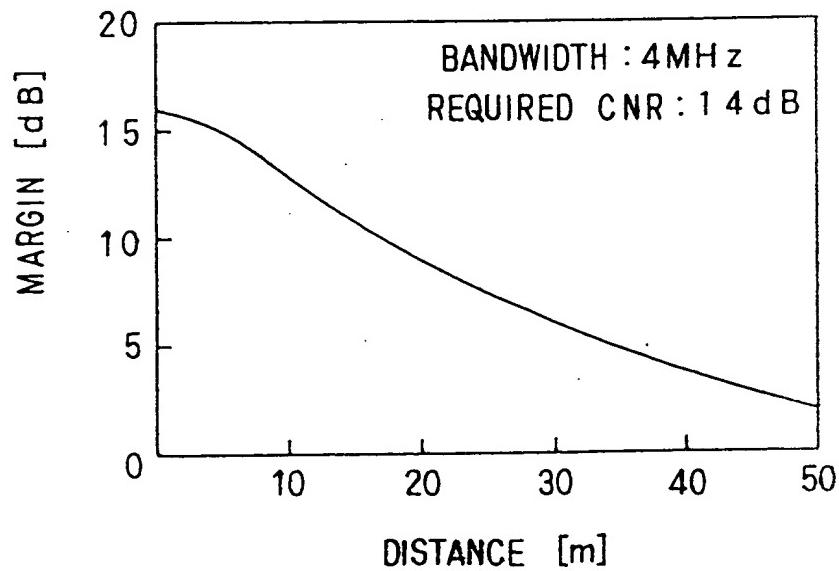


FIG. 9

EXTERNAL
NETWORK

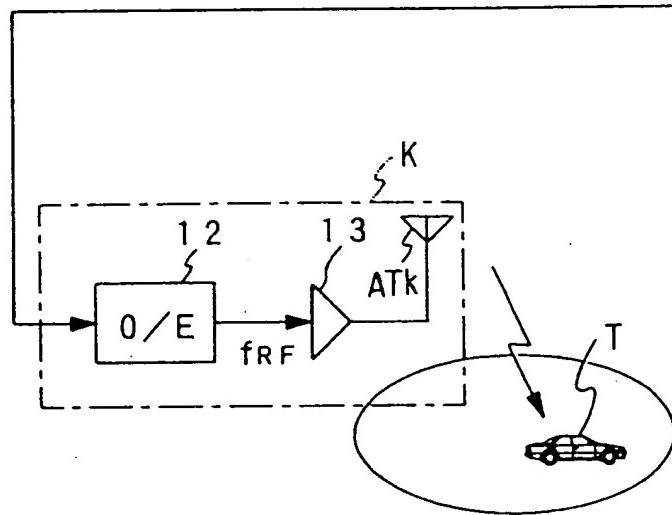
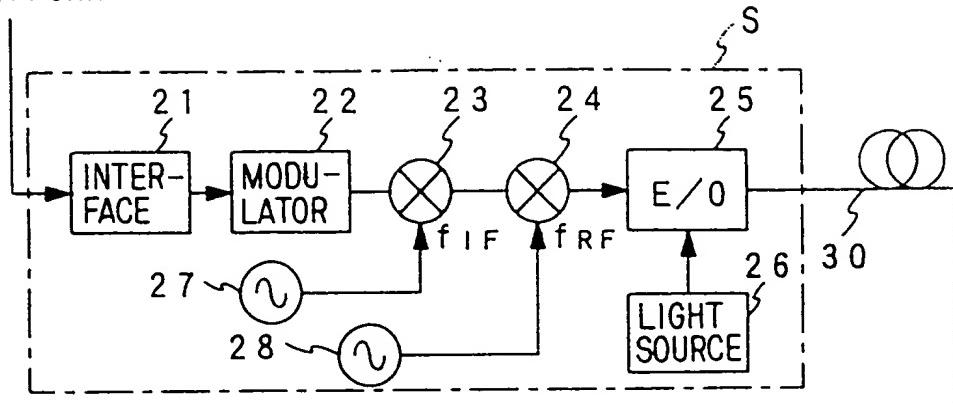


FIG. IOA

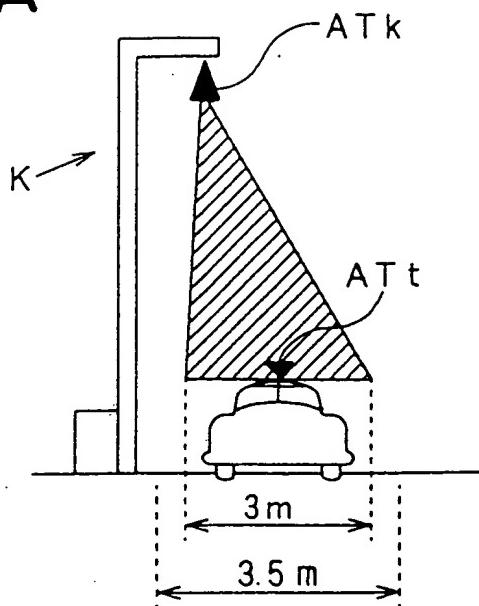


FIG. IOB

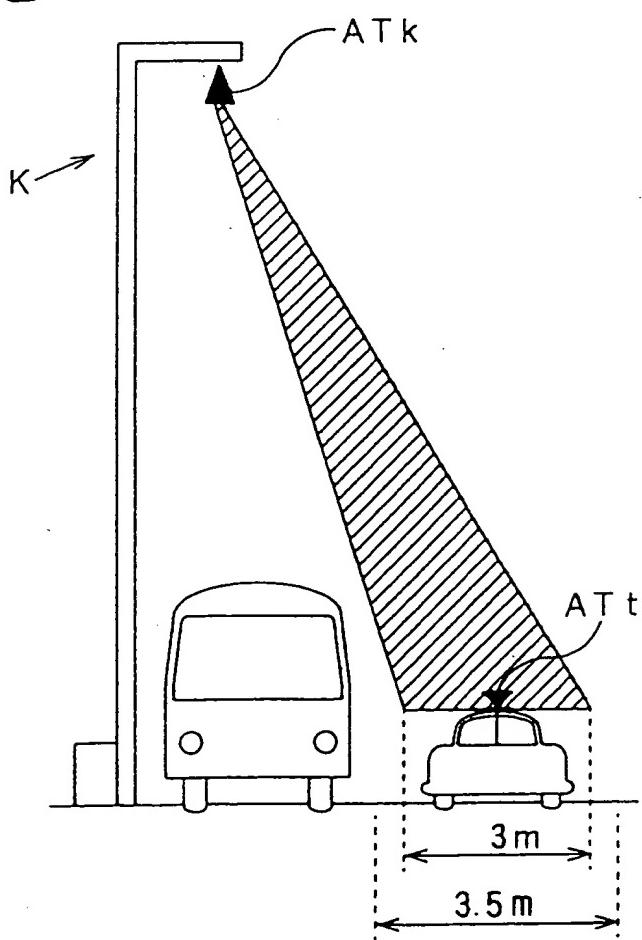


FIG. IIA

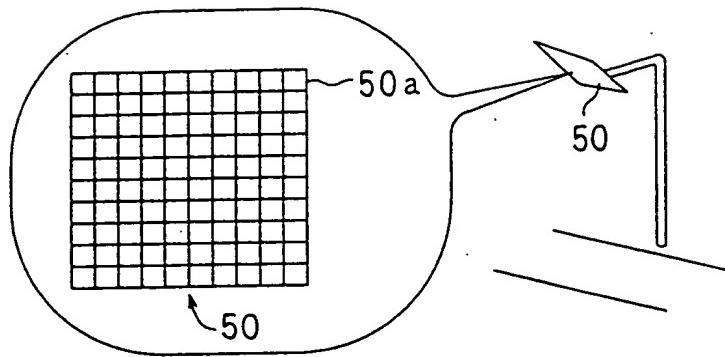


FIG. IIB

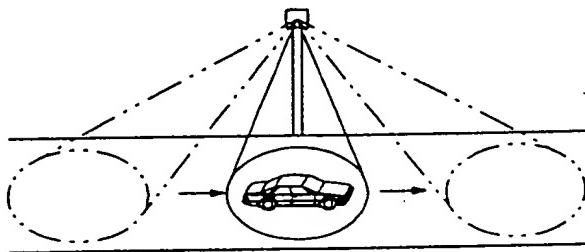


FIG. IIC

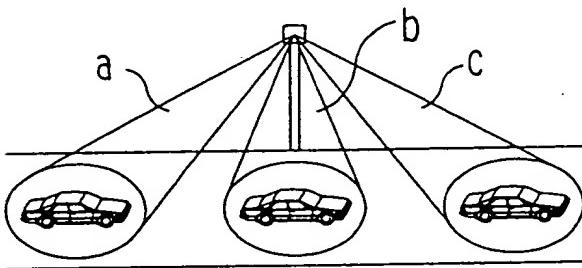


FIG. IID

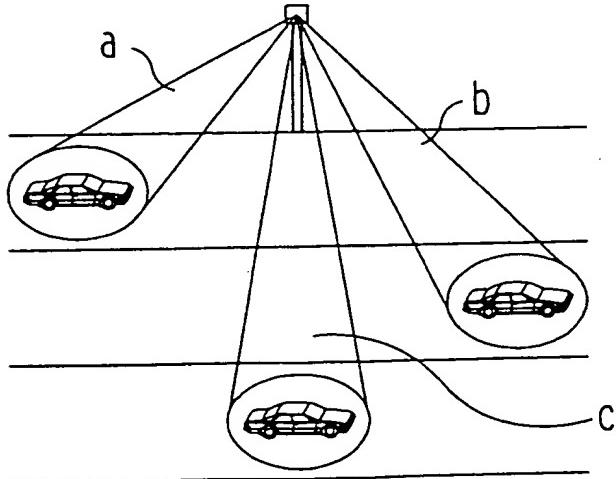


FIG. I2A

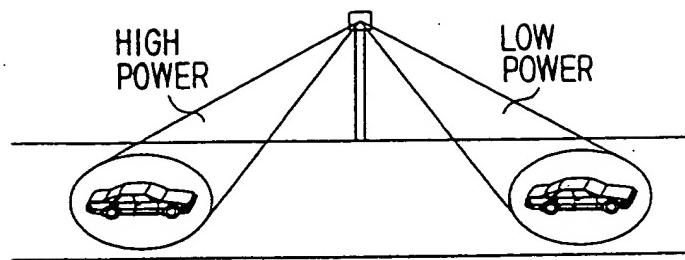


FIG. I2B

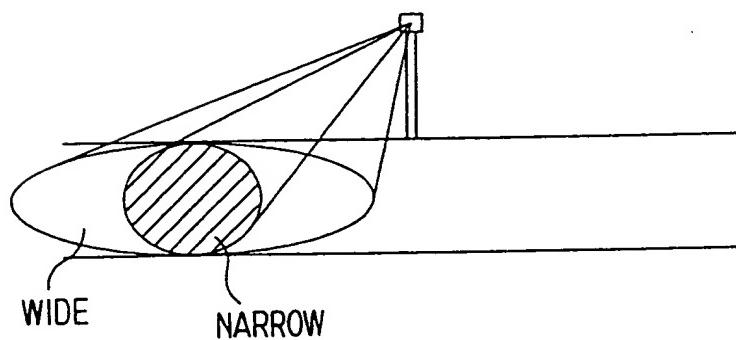


FIG. I2C

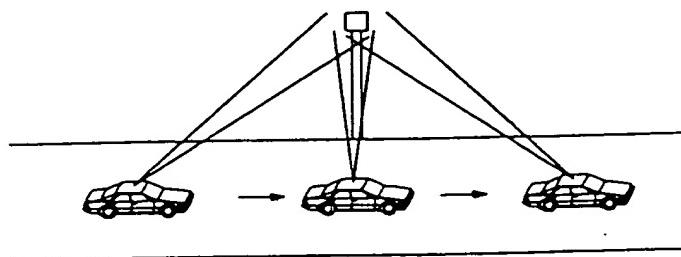


FIG. 13A

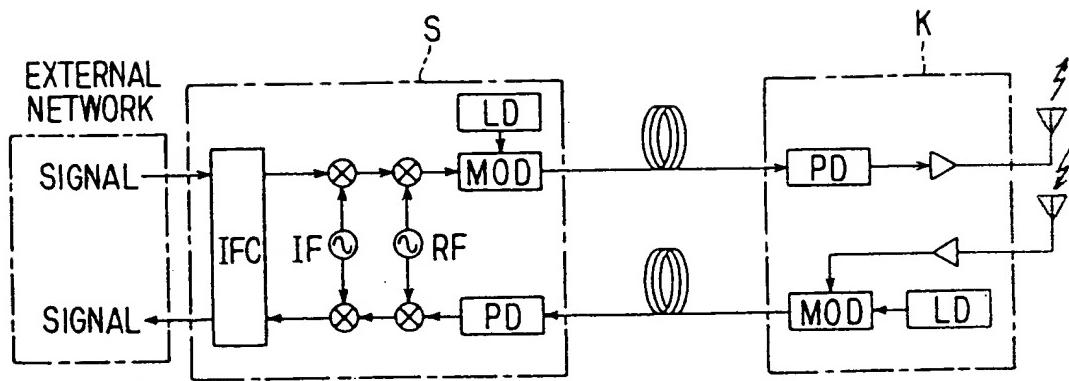


FIG. 13B

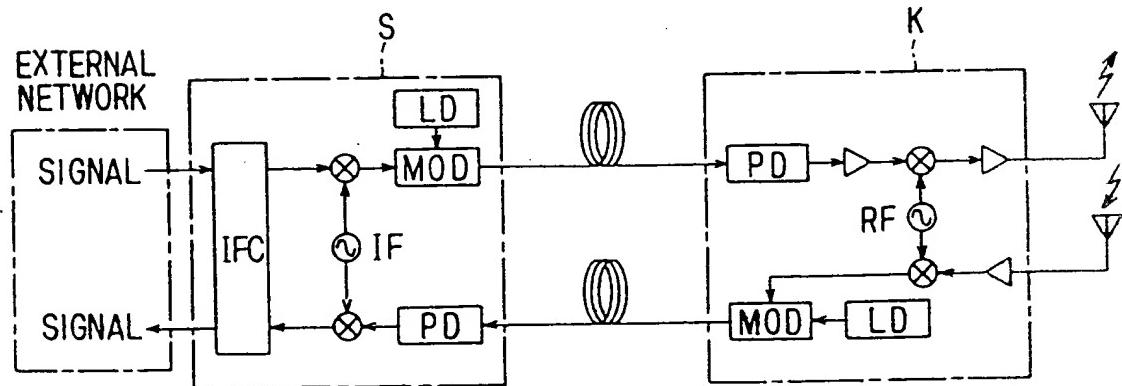


FIG. 14A

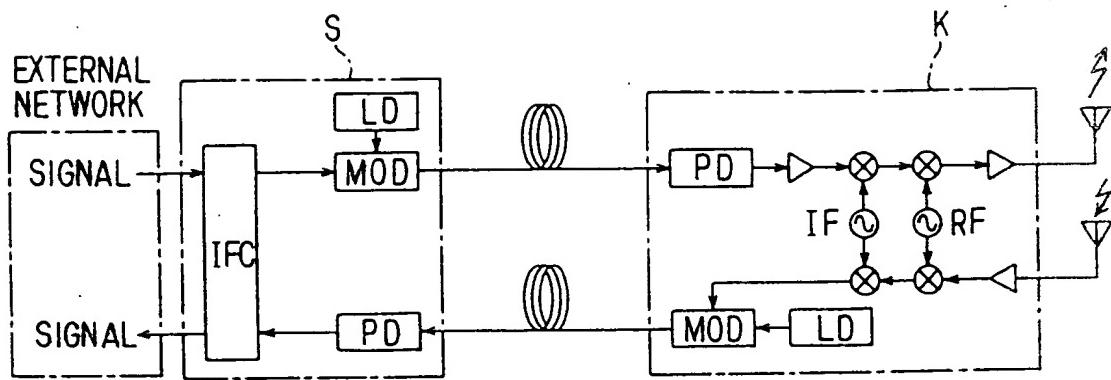


FIG. 14B

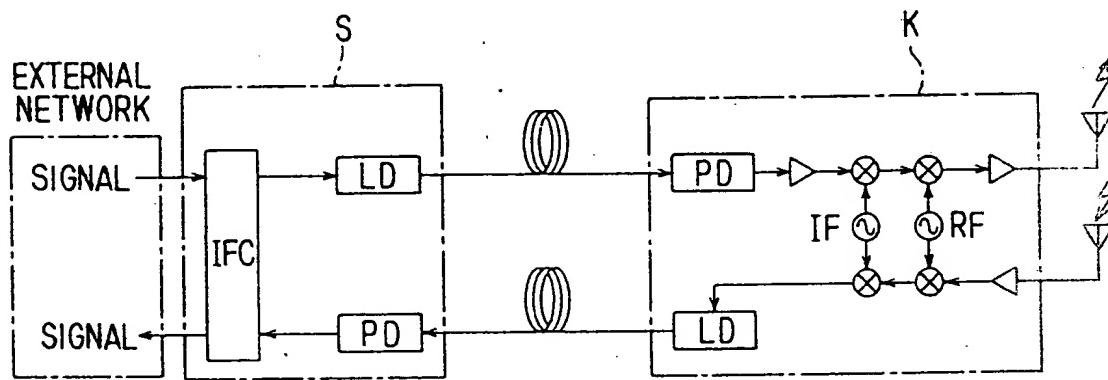


FIG. 14C

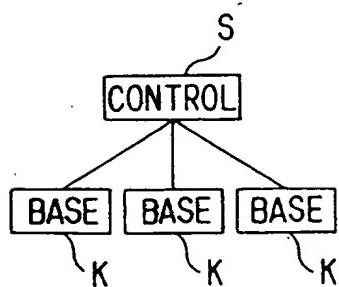


FIG. 14D

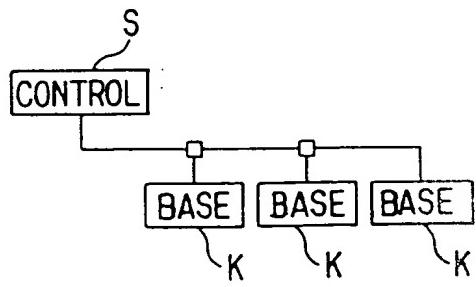


FIG. 15A RELATED ART

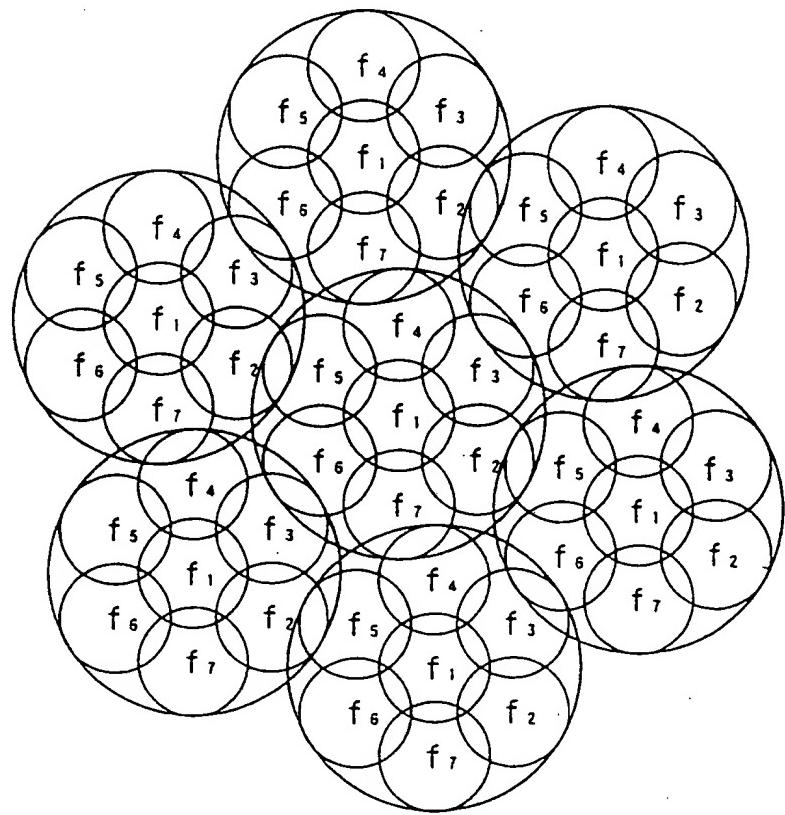


FIG. 15B RELATED ART

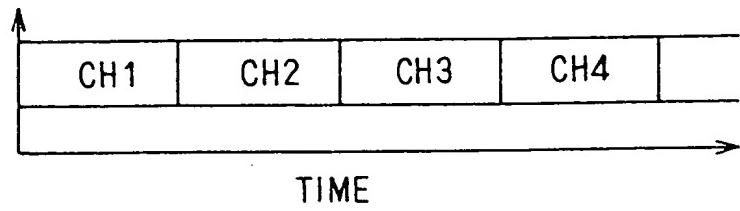


FIG. 15C RELATED ART

